







Spring Flood Outlook - Overview

Flood Risk This Spring Across South Central Nebraska and North Central Kansas is Generally Below Normal

- There is not enough moisture in our recent snowfall to result in any flooding issues.
- Mountain snowpack in the Platte River Basin is near normal and not expected to result in Spring Flooding.
- River ice thickness and frost depth is less than normal given our overall warm winter despite our recent cool down.
- Soil moisture is drier than normal and capable of absorbing plenty of moisture thus limiting spring flood potential.
- Current streamflow on our biggest rivers is averaging below normal.
- The 3 month precipitation outlook indicates a higher likelihood of below normal precipitation.
- Flooding is still possible even in dry years and when the overall risk of flooding is below normal.





Spring Flood Outlook

South Central Nebraska and North Central Kansas

Overall S	Overall Spring Flood Risk		** Below Normal **	
Contributing Factors	Short Term: 24 Feb - 10 Mar	Long Term: March-May	Snowpack: Local snow to result in any snown River Ice/Frozen Grown has formed over the pagenerally too insignifice Soil Moisture: Abnormal drought conditions. Stream Flow: Our biggrunning with below not content is forecasting the precipitation for most.	
Local Snowpack	Below Normal	Below Normal		
Mountain Snowpack	No short term impact	Normal		
River Ice/Frozen Ground	Below Normal	Below Normal		
Soil Moisture	Below Normal	Below Normal		
Stream Flow	Below Normal	Below Normal		
Precipitation Outlook	Equal Chances	Below Normal		
Impact Level Below Norm	al Normal Abo	ve Normal	_	

Bottom Line Up Front

- **Snowpack:** Local snowpack is too insignificant to result in any snowmelt induced flooding.
- River Ice/Frozen Ground: Some thin river ice has formed over the past few days, but is generally too insignificant to result in ice jams.
- Soil Moisture: Abnormally low given ongoing drought conditions.
- **Stream Flow:** Our biggest rivers are generally running with below normal flow.
- Precipitation Outlook: The Climate Prediction Center is forecasting below normal precipitation for most of the period.





Seasonal Snowfall So Far

Well Below Normal

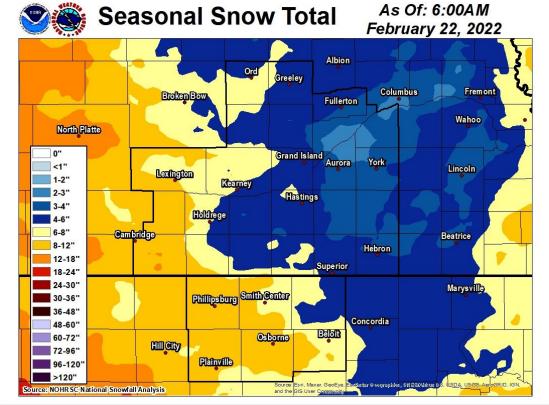
As of Feb 21st

Grand Island Seasonal Snow:

Current 5.1" Normal 20.8"

Short -15.7"

Since Dec 1st Liquid -1.49"



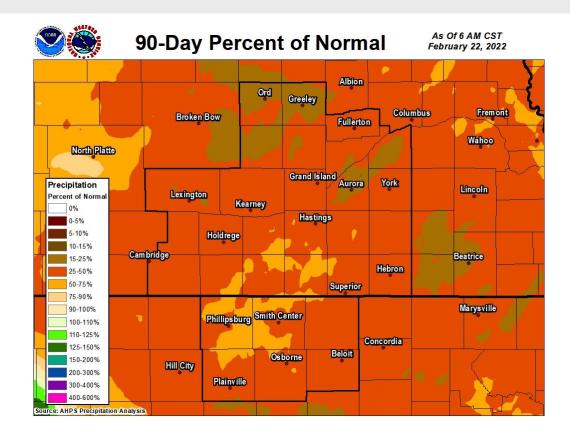


Precipitation Trends

Well Below Normal

Key Messages

- → Precipitation Last 90 days
- → Well below normal (15-50%)



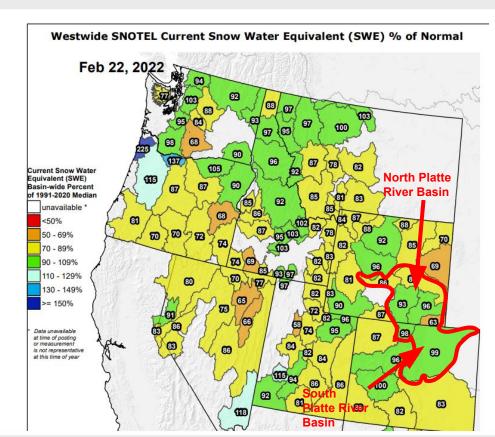


Platte River Basin Snowpack

Near Normal

Key Messages

- → As of late February
 the mountain
 snowpack was near
 normal over the
 Platte River Basin
- → Mountain snowmelt induced flooding is not expected across Central Nebraska

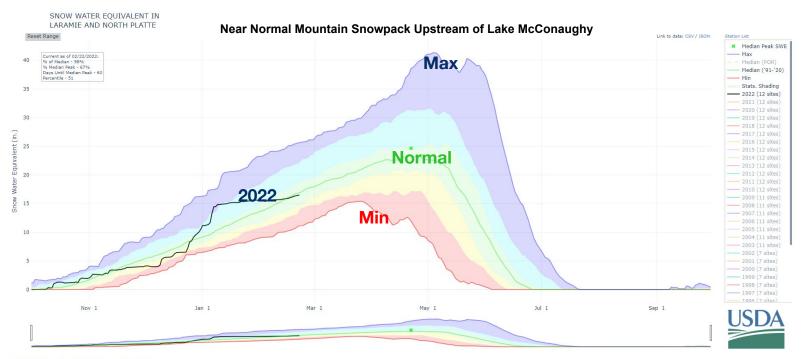




Platte River Basin Snowpack

Near Normal

North Platte River Basin - February 22, 2022



Statistical shading breaks at 10th, 30th, 50th, 70th, and 90th Percentiles For more information visit: 30-Year Hydroclimatic Normals

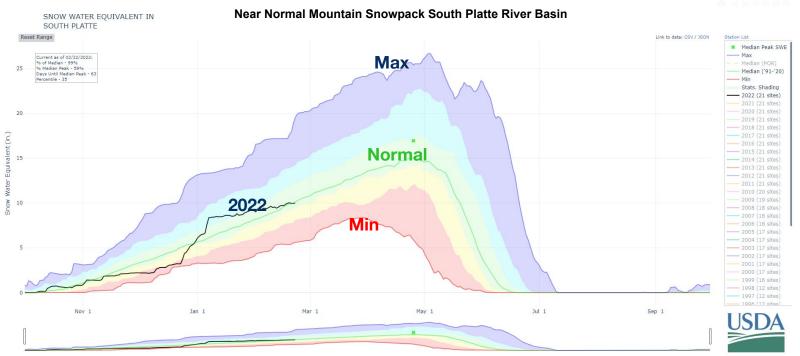




Platte River Basin Snowpack

Near Normal

South Platte River Basin - February 22, 2022



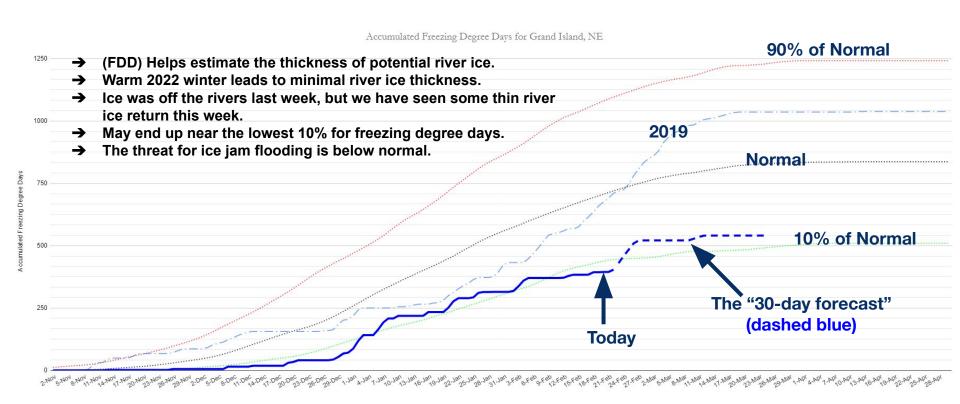
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Freezing Degree Days (FDD)

February 22, 2022 12:23 PM

Grand Island - Below Normal FDD Means Warmer Than Normal Winter With Less River Ice

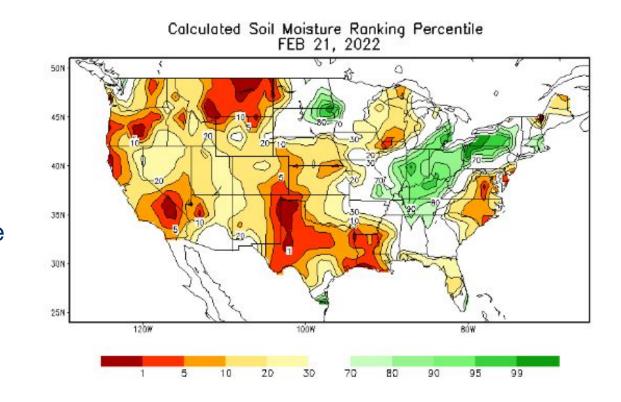






Key Messages

- → Below normal soil moisture
- → Ground should easily be able to absorb a good deal of moisture







Drought Monitor

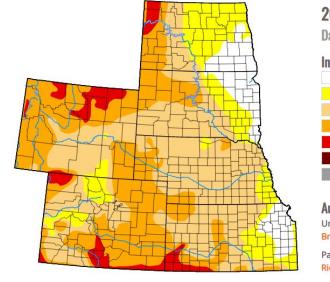
Abnormally Dry to Moderate Drought

High Plains

Home > High Plains

Key Messages

- → Moderate drought conditions persist
- → Ground should easily be able to absorb a good deal of moisture



Map released: Thurs. February 17, 2022

Data valid: February 15, 2022 at 7 a.m. EST

Intensity

None
D0 (Abnormally Dry)

D1 (Moderate Drought)

D2 (Severe Drought)

D3 (Extreme Drought)

D4 (Exceptional Drought)

No Data

NO Data

Authors

United States and Puerto Rico Author(s):

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Pacific Islands and Virgin Islands Author(s):

Richard Heim, NOAA/NCEI

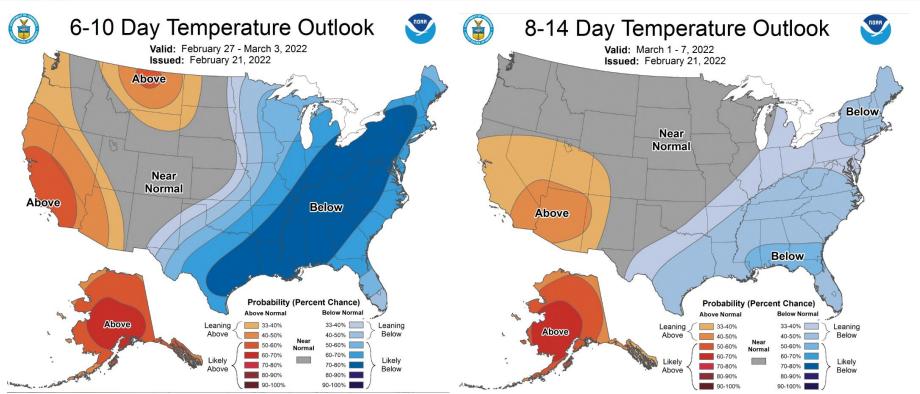
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying **text summary** for forecast statements.





Looking at the Temperature Forecast

Near Normal Temperature Outlook Through The Next 2 Weeks

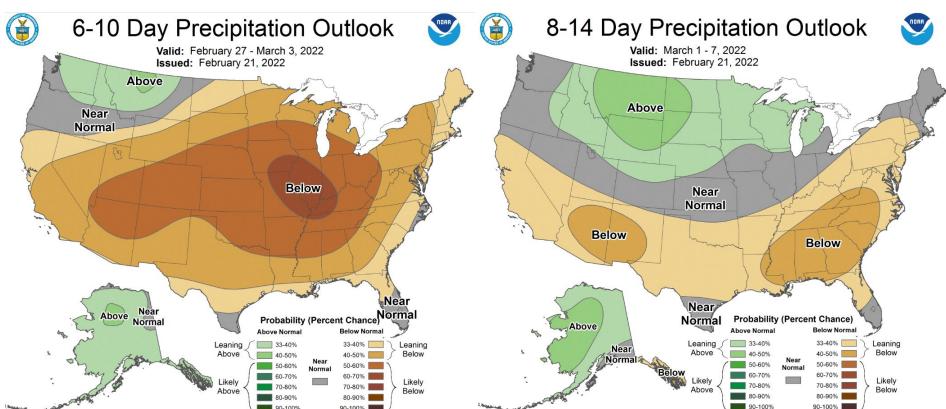






Looking at the Precipitation Forecast

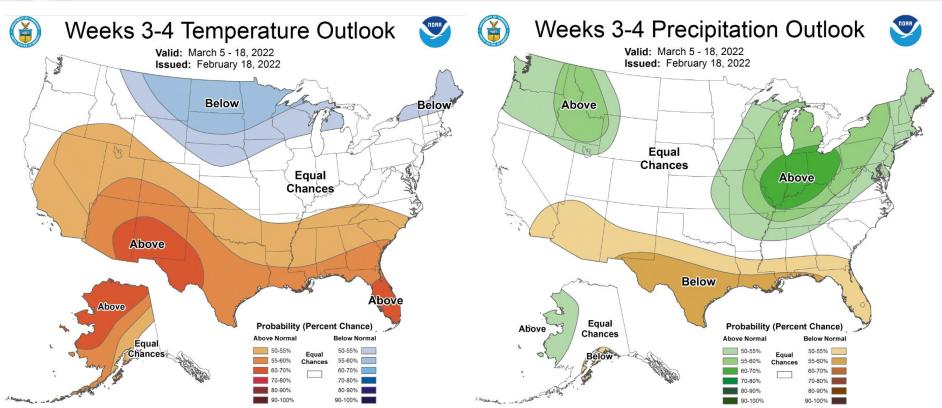
Some Chance Of A Storm System Around March 5-7 Otherwise Pretty Dry





Looking at the 3-4 Week Forecast

Another cold snap beginning around March 5-7 with a chance for precipitation (precip uncertainty is high)

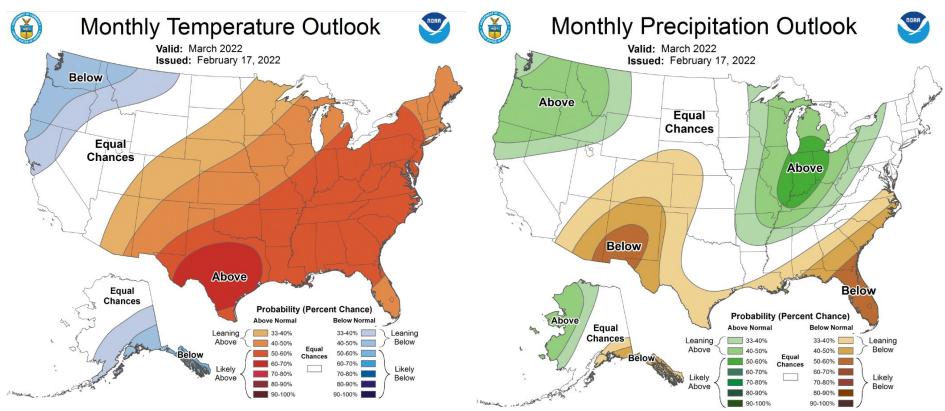






Looking at the March Forecast

More Likely A Warmer and Drier Than Normal March

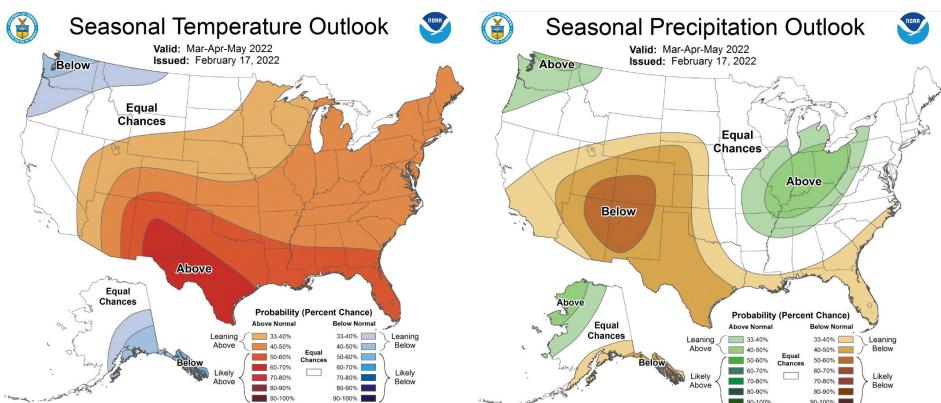






Looking at the 3 Month Forecast

More Likely A Warmer and Drier Than Normal Period March Through May







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